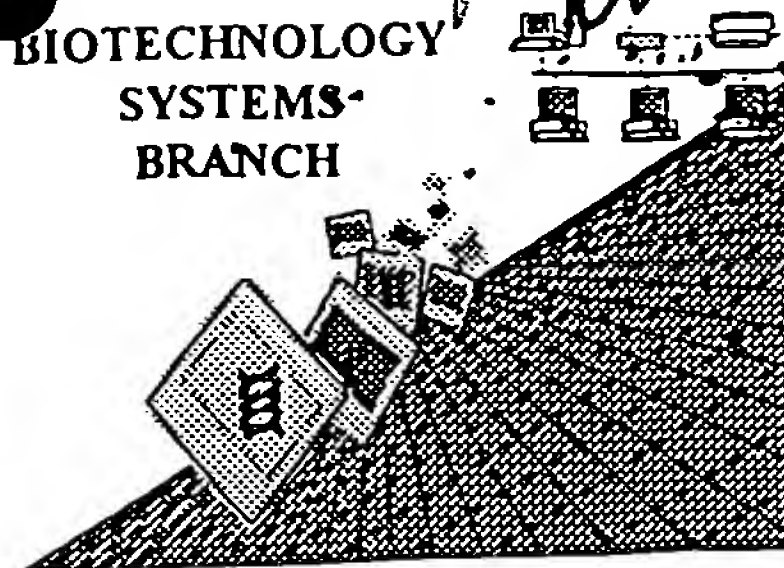


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS-
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/868118
Source: PCT 09
Date Processed by STIC: 10/29/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/868118

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY P1

- 1 ☐ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length.
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped.

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
<210> sequence id number
<400> sequence id number
000
- 9 ☒ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ Invalid <213>
Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence.
- 11 ☐ Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

3 <110> APPLICANT: Thorner, Jeremy
 4 Alessi, Dario
 5 Torrance, Pamela
 6 Casamayor, Antonio
 10 <120> TITLE OF INVENTION: Screening Methods
 14 <130> FILE REFERENCE: 002.00150(MEDY/P22233PC)
 18 <140> CURRENT APPLICATION NUMBER: 09/868,118
 20 <141> CURRENT FILING DATE: 1999-12-14
 24 <160> NUMBER OF SEQ ID NOS: 67
 28 <170> SOFTWARE: PatentIn Ver. 2.0
 32 <210> SEQ ID NO: 1
 34 <211> LENGTH: 11
 36 <212> TYPE: PRT
 38 <213> ORGANISM: Artificial Sequence ✓
 42 <220> FEATURE:
 44 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide ✓
 48 <400> SEQUENCE: 1
 50 Gly Arg Pro Arg Thr Ser Ser Phe Ala Glu Gly
 52 1 5 10
 58 <210> SEQ ID NO: 2
 60 <211> LENGTH: 8
 62 <212> TYPE: PRT ✓
 64 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 70 <223> OTHER INFORMATION: Description of Artificial Sequence:motif ✓
 74 <400> SEQUENCE: 2
 W--> 76 Thr Phe Cys Gly Thr Xaa Glu Tyr *Errored: Unknown amino acids must be
 78 1 5 enumerated in fields 221, 222 and 223
 84 <210> SEQ ID NO: 3 as "variant", location, and possible values
 86 <211> LENGTH: 6 for Xaa.*
 88 <212> TYPE: PRT ✓
 90 <213> ORGANISM: Artificial Sequence
 94 <220> FEATURE:
 96 <223> OTHER INFORMATION: Description of Artificial Sequence:motif ✓
 100 <400> SEQUENCE: 3
 W--> 102 Phe Xaa Xaa Phe Ser Phe *Errored: Unknown amino acids must be
 104 1 5 enumerated in fields 221, 222 and 223*
 110 <210> SEQ ID NO: 4
 112 <211> LENGTH: 70
 114 <212> TYPE: DNA
 116 <213> ORGANISM: Artificial Sequence
 120 <220> FEATURE:
 122 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
 126 <400> SEQUENCE: 4
 128 cgggatccgc caccatggag cagaagctga tctctgaaga ggacttgat ttgataagga 60
 130 taattccatg 70
 134 <210> SEQ ID NO: 5

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors.

RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/868,118

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

```

136 <211> LENGTH: 39
138 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
146 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer✓
150 <400> SEQUENCE: 5
152 ataagaatgc ggccgcttac gacctcttcg attttgcag 39
156 <210> SEQ ID NO: 6
158 <211> LENGTH: 76
160 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer✓
172 <400> SEQUENCE: 6
174 ataagaatgc ggccgctgcc accatggagc agaacctgtc tctgaagagg acttgggaaa 60
176 taggtcttga cagagg 76
180 <210> SEQ ID NO: 7
182 <211> LENGTH: 38
184 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer✓
196 <400> SEQUENCE: 7
198 ataagaatgc ggccgctcat ttttcatctg tccgtgtc 38
202 <210> SEQ ID NO: 8
204 <211> LENGTH: 60
206 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer✓
218 <400> SEQUENCE: 8
220 ggatccgccca ccatgtaccc atacgatgtg ccagattacg cctattcttg gaagtttaag 60
224 <210> SEQ ID NO: 9
226 <211> LENGTH: 28
228 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer✓
240 <400> SEQUENCE: 9
242 ggtaccctat ctaatgcttc taccttgc 28
246 <210> SEQ ID NO: 10
248 <211> LENGTH: 59
250 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer✓
262 <400> SEQUENCE: 10
264 aagtaacatc ttgatgaacc gagaagccac taactagttt tgtgcaccat aattttccg 59
268 <210> SEQ ID NO: 11

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

270 <211> LENGTH: 56
 272 <212> TYPE: DNA
 274 <213> ORGANISM: Artificial Sequence
 278 <220> FEATURE:
 280 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
 284 <400> SEQUENCE: 11
 286 taagtagctt gatgaaaaca ttagataaaa ttactaatta ccgtcgagtt caagag 56
 290 <210> SEQ ID NO: 12
 292 <211> LENGTH: 59
 294 <212> TYPE: DNA
 296 <213> ORGANISM: Artificial Sequence
 300 <220> FEATURE:
 302 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
 306 <400> SEQUENCE: 12
 308 gcacgtgtac ttgcttgaat actgctacta tatcattaat atggtactga gaggcacc 59
 312 <210> SEQ ID NO: 13
 314 <211> LENGTH: 61
 316 <212> TYPE: DNA
 318 <213> ORGANISM: Artificial Sequence
 322 <220> FEATURE:
 324 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
 328 <400> SEQUENCE: 13
 330 tattatgcat tacactttcc ccttcacccat gtcttacata tgcacccgca ggcaagtgc 60
 332 c 61
 336 <210> SEQ ID NO: 14
 338 <211> LENGTH: 18
 340 <212> TYPE: DNA
 342 <213> ORGANISM: Artificial Sequence
 346 <220> FEATURE:
 348 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
 352 <400> SEQUENCE: 14
 354 tgccctcgaa gacatggc 18
 358 <210> SEQ ID NO: 15
 360 <211> LENGTH: 21
 362 <212> TYPE: DNA
 364 <213> ORGANISM: Artificial Sequence
 368 <220> FEATURE:
 370 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
 374 <400> SEQUENCE: 15
 376 cttgaacaca gtaagtaacg g 21
 380 <210> SEQ ID NO: 16
 382 <211> LENGTH: 21
 384 <212> TYPE: DNA
 386 <213> ORGANISM: Artificial Sequence
 390 <220> FEATURE:
 392 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
 396 <400> SEQUENCE: 16
 398 gcttgactca attaaggcga c 21
 402 <210> SEQ ID NO: 17

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

404 <211> LENGTH: 18
406 <212> TYPE: DNA
408 <213> ORGANISM: Artificial Sequence
412 <220> FEATURE:
414 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
418 <400> SEQUENCE: 17
420 acatgcttag ttaactcc 18
424 <210> SEQ ID NO: 18
426 <211> LENGTH: 29
428 <212> TYPE: DNA
430 <213> ORGANISM: Artificial Sequence
434 <220> FEATURE:
436 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
440 <400> SEQUENCE: 18
442 ggggtaccgc ttgactcaat taaggcgac 29
446 <210> SEQ ID NO: 19
448 <211> LENGTH: 40
450 <212> TYPE: DNA
452 <213> ORGANISM: Artificial Sequence
456 <220> FEATURE:
458 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
462 <400> SEQUENCE: 19
464 cttcagagat cagcttctgc tccatattaa tgatatagta 40
468 <210> SEQ ID NO: 20
470 <211> LENGTH: 22
472 <212> TYPE: DNA
474 <213> ORGANISM: Artificial Sequence
478 <220> FEATURE:
480 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
484 <400> SEQUENCE: 20
486 acacgatctc agccgtgtaa aa 22
490 <210> SEQ ID NO: 21
492 <211> LENGTH: 20
494 <212> TYPE: DNA
496 <213> ORGANISM: Artificial Sequence
500 <220> FEATURE:
502 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
506 <400> SEQUENCE: 21
508 aattaaccct cactaaaggg 20
512 <210> SEQ ID NO: 22
514 <211> LENGTH: 40
516 <212> TYPE: DNA
518 <213> ORGANISM: Artificial Sequence
522 <220> FEATURE:
524 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓
528 <400> SEQUENCE: 22
530 ttcagaaatc aacttttgtt ctctaagtct tctaccttgc 40
534 <210> SEQ ID NO: 23
536 <211> LENGTH: 7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

538 <212> TYPE: PRT
540 <213> ORGANISM: Artificial Sequence
544 <220> FEATURE:
546 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
550 <400> SEQUENCE: 23
552 Arg Pro Arg Thr Ser Ser Phe
554 1 5
560 <210> SEQ ID NO: 24
562 <211> LENGTH: 7
564 <212> TYPE: PRT
566 <213> ORGANISM: Artificial Sequence
570 <220> FEATURE:
572 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
576 <400> SEQUENCE: 24
578 Lys Pro Arg Thr Ser Ser Phe
580 1 5
586 <210> SEQ ID NO: 25
588 <211> LENGTH: 7
590 <212> TYPE: PRT
592 <213> ORGANISM: Artificial Sequence
596 <220> FEATURE:
598 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
602 <400> SEQUENCE: 25
604 Arg Pro Lys Thr Ser Ser Phe
606 1 5
612 <210> SEQ ID NO: 26
614 <211> LENGTH: 7
616 <212> TYPE: PRT
618 <213> ORGANISM: Artificial Sequence
622 <220> FEATURE:
624 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
628 <400> SEQUENCE: 26
630 Arg Pro Arg Thr Ser Ala Phe
632 1 5
638 <210> SEQ ID NO: 27
640 <211> LENGTH: 6
642 <212> TYPE: PRT
644 <213> ORGANISM: Artificial Sequence
648 <220> FEATURE:
650 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
654 <400> SEQUENCE: 27
656 Pro Arg Thr Ser Ser Phe
658 1 5
664 <210> SEQ ID NO: 28
666 <211> LENGTH: 6
668 <212> TYPE: PRT
670 <213> ORGANISM: Artificial Sequence
674 <220> FEATURE:
676 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:42

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

L:76 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:76 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:102 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:102 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3